

E1
cont
No. 5,143,854; and Appln. No. 07/362,901, filed June 7, 1989, now abandoned,
which are hereby incorporated by reference.

[
Page 8, line 18, change the paragraph to read as follows:

E2
Fig. 2A - 2M illustrate the proper function of a VLSIPS™ Technology
nucleotide synthesis.

IN THE CLAIMS

Cancel non-elected claims 43-45, 47-50, 52 and 57-69 without prejudice or
disclaimer.

Please enter the following amended claims:

E3
Sub
gr
26. (Amended) A collection of beads comprising a plurality of beads which
have polymers of different specific sequence attached thereto; said beads being
coded with an encoding system whereby the specific sequence of the polymer
attached to the beads can be identified.

27. (Amended) The collection of claim 26, wherein the polymer is an
oligonucleotide having a given length and is selected from the group consisting of all
possible oligonucleotide sequences having the same number of nucleotides.

3 28. (Amended) The collection of claim ²27, wherein at least about 20% of all
possible oligonucleotide sequences having the same number of nucleotides are
each attached to a different single bead.